SOUTH AFRICAN JOURNAL OF SCIENCE
SUID-AFRIKAANSE TYDSKRIF VIR WETENSKAP

Volume 82

1986

INDEX

INDEX TO PARTS

No. 1 January	1 – 52
No. 2 February	53 – 116
No. 3 March	117 – 168
No. 4 April	169 – 228
No. 5 May	229 – 276
No. 6 June	277 – 336
No. 7 July	337 – 396
No. 8 August	397 – 456
No. 9 September	457 – 524
No. 10 October	525 – 600
No. 11 November/December	601 – 656

Supplement to the South African Journal of Science, April 1987

A

3-critical graphs and a conjecture of Winter and Swart........ 417
AARDT, W.J. VAN see VAN AARDT, W.J. ....
A: arylamine N-acetyltransferase (EC 2.3.1.5) from rat pineal gland. Probable mechanism of catalysis of acetyl coenzyme 200
ABBOTT, J. 532
ABRAMS, N. and BURCKLE, L.H. 69, 505
Acacia longifolia 170
Academic support programme for high-risk first-year students. A psycho-statistical evaluation of a zoology 559
Academics, Professional development of: fashionable fad or responsible innovation? 543
ACKERT, R.P. and WEED, R. 513
ADAMS, C. and ADAMS, P.A. 113
ADAMS, G., *et al.* 261
ADAMS, P.A. and ADAMS, C. 113
ADAMSON, D.A., *et al.* 520
Adaptive significance of indigenous hut architecture in Transkei 295
Adult education. Innovation in 547
African climates and palaeoenvironments since Messinian times 70
Age-related changes in proteoglycan of bovine intervertebral disc 151
Agulhas anchovy 119
Agulhas Current. Cloud lines over the............................ 635
Agulhas Current in spring, 1983. Features of the northern ... 18
AIDS. Arthropods and... 403
Alcohol withdrawal syndrome. Neurochemical correlates of the 96
Alkaline haematin-catalysed p-hydroxylation and oxidative N-demethylation of substiuted aromatic amines. Bond fission patterns observed during... 113
ALLENSPACH-WASSER, C.E., *et al.* 563
ALLISON, J.C.S. 7
ALMEIDA, A.R.C. DE see DE ALMEIDA, A.R.C. ....
Alternative conceptions and their remediation. Research into 539
ALTMAN, E., *et al.* 45
Amblyrhynchotes honckenii (Bloch). Toxicity studies on the South African puffer fish,... 47
American observatories in Southern Africa..................... 11
Amphibians. A synopsis of explanations for metamorphosis in insects and 372
Analytical science in South Africa 285
Anatomical Society of Southern Africa: selected abstracts of papers presented at the 16th annual congress, Univ. of Durban-Westville, July 1986 448
Anatomiese Vereniging van Suider-Afrika: uitgekose uittreksels van referate opgelewer gedurende die 16de jaarlikse kongres, Univ. van Durban-Westville, Julie 1986 448
ANDERSON, J.B. 503
Animal abundance in small populations using capture-recapture information. Bayesian estimation of............................. 137
Antarctic Bottom Water. Glacial-interglacial changes in....... 501
Antarctic Peninsula and South Georgia. Glacial history of the 508
Antarctic waters and its palaeoecological significance. Biogenic siliceous particle flux in 500
Antarctica's glacial and climatic history from deep-sea sediments. Critical evaluation of some criteria used to infer 503
Anteosaurus magnificus (Dinocephalia: Therapsida) and its bearing on the origin of the mammalian manual phalangeal formula. The hand of 641
Anthropometric and dental data on different population groups in South African primary schools 329
Antibodies from chicken eggs 339
Anti-LPS antibodies to treat radiation sickness 284
Arthropods and AIDS.. 403
Australopithecines dietary 'specialists'? Were the 'robust' 86

B

Bacterial bioabsorption of chromium from industrial cooling water 595
Bacteriophage 28-1. Preparative-scale depolymerisation of capsular polysaccharide from *E. coli* K28 using 45
BAIRD, D., *et al.* 324
BAKKER, E.M. VAN ZINDEREN see VAN ZINDEREN BAKKER, E.M. ....
BAXTER, A.P. 348
Bayesian estimation of animal abundance in small populations using capture-recapture information 137
BAYVEL, L.P. 14
Beacon Supergroup sandstones and implications for Antarctic glacial chronology. Chemical weathering of.................... 513
BEETON, R. 347
BESTER, R., *et al.* 626
BEY, E.M. 645
Biological invasions. Ecology of..................................... 610
Biological warfare, Benign 7
Biomechanics. Remote sensing in.................................... 404
Biomphalaria cf. *glabrata* (Say) at low temperatures. Survival of *Bullinus tropicus* (Krauss), *Lymnaea natalensis* Krauss and 322
Biotic response to two Late Neogene intervals of global climatic change: evidence from the deep-sea record 69
Black child development 173
Blowflies (Diptera: Calliphoridae) on the Transvaal Highveld, South Africa. Factors affecting the coexistence of 244
BOEYENS, J.C.A. 361
BOEYENS, J.C.A., *et al.* 563
Bohr, Niels, 1885-1962 179
Bond fission patterns observed during alkaline haematin-catalysed *p*-hydroxylation and oxidative *N*-demethylation of substituted aromatic amines.. 113
BONNEFILLE, R. and SCOTT, L. 380
Bovid relations based on serum immunology 77
Bovid tooth enamel. Effects of different etching agents on... 265
Bovine hydroxyindole-*O*-methyltransferase (EC 2.1.1.4) with various hydroxy substrates. Mechanism of catalysis of...... 272
Bovine intervertebral disc. Age-related changes in proteoglycan of 151
BOWMAKER, A.P. 624
BP Southern Africa (Pty) Ltd... 281
Brachytherapy... 406
BRADSHAW, E. and HARINGTON, J.S. 57
BRADLEY, J.D. and STANDTON, M............ 534, 535, 537, 539
BRAIN, C.K. 94
Brewery. Production planning for a................................ 231
BRIGGS, A.B., *et al.* 156
BRITS, J.A., *et al.* 54
BROCK, A., *et al.* 160
BROERE, I. and MYNHARDT, C.M............................. 417
BRUNDRIT, G.B.. 625
BRUTON, M.N. 622
Bulinus tropicus (Krauss). Effect of laboratory breeding on the population dynamics of the successive generations of the freshwater snail.. 369
Bulinus tropicus (Krauss), *Lymnaea natalensis* Krauss and *Biomphalaria* cf. *glabrata* (Say) at low temperatures. Survival of 322
Bulinus tropicus. Uptake of copper by the haemolymph, shell and soft tissue of the snail 383
BURCKLE, L.H. and ABRAMS, N. 69, 505
BUSH, J.B. and MARKUS, M.B. 577
BUTLER, A.C., *et al.* 319

C

CAIDAN, S.J., *et al.* 96
Cainozoic glacial-marine sedimentation in Antarctica (31 Myr): results from MSSTS-1 drill-hole. Oldest record of 516
Cainozoic planktonic and larger foraminifera distributions around Southern Africa and their implications for past changes of oceanic water temperatures.................................... 66
Cainozoic temperature change. Prospects for a Southern African continental record of.. 94
CAIRNCROSS, B., *et al.* 579, 588
CAL: the Wits experience 535
Calliphoridae) on the Transvaal Highveld, South Africa. Factors affecting the coexistence of blowflies (Diptera:......... 244
Cancers in Southern Africa, 1949-1979. The problems of

oesophageal cancer relative to others 57
CANTRILL, R.C., *et al.* 203
Cape Province of South Africa. Distribution and formation of Mima-like earth mounds in the western 432
Capsular polysaccharide from *E. coli* K28 using bacteriophage 28-1. Preparative-scale depolymerisation of 45
Capture-recapture information. Bayesian estimation of animal abundance in small populations using 137
Caracal lynx, based on demographic data from populations in the Mountain Zebra National Park, South Africa. Mathematical model of the interaction between rock hyrax and 289
Carbon-carbon bond formation. Methanol conversion to hydrocarbons: comments on the mechanism of 350
Carbonate accumulation on islands in the Okavango Delta, Botswana 588
Carnivore and hominid evolutionary events. Correlation and causation in some 75
CARROLL, J.J. 493
Cassava with the pathogen causing bacterial blight. Suitability of cell suspension cultures for studying the interaction of.. 592
CASSIDY, K.F., *et al.* 572
Catalysis of acetyl coenzyme A:arylamine N-acetyltransferase (EC 2.3.1.5) from rat pineal gland. Probable mechanism of 200
CAWTHORN, R.G., *et al.* 572
Cell suspension cultures for studying the interaction of cassava with the pathogen causing bacterial blight. Suitability of... 592
Cells on fibrin-coated agarose or polycarbonate. Spreading, growth and function of 645
CHANNING, A. and ZUCCHINI, W. 137
CHARTERIS, J. 614
Chemical weathering of Beacon Supergroup sandstones and implication for Antarctic glacial chronology 513
Chemistry. Holism and 361
Chemists. New aids for 118
Child (Black) development 173
Chlorination of small-scale water supplies: applied research and development 232
Chromium from industrial cooling water. Bacterial bioabsorption of 595
CHUNG, S.H., *et al.* 96
CLAPPERTON, C.M. and SUGDEN, D.E. 508
Climate of an ice age. Potential influence of floating ice shelves on the 509
Climates and human responses. Late Pleistocene and Holocene 74
CLOETE, N. and MULLER, J. 529
Cloud lines over the Agulhas Current 635
Coast. Assessing oil pollution potentials for the South African 240
Cobalt catalysts. Liquid fuels production from coal: carbon monoxide hydrogenation using 596
COCHRANE, K.L. and ROBARTS, R.D. 148
COETZEE, J.A. 71
COHN, B.A. and ZIHLMAN, A.L. 89
Comet Halley 341
Community development. The contribution of engineering infrastructure to 532
Competition and coexistence: Zoological Society of Southern Africa symposium 125
Computer in modern applied mathematics: recurrence and the investigation of nonlinear phenomena 404
Computer, Making it friendly 2
Computerised geography for rural planning 400
CONNELL, A.D., *et al.* 319
COOPER, M.R. 255
Copper by the haemolymph, shell and soft tissue of the snail *Bulinus tropicus*. Uptake of 383
COPPERTHWAITE, R.G., *et al.* 596
Corbelled stone huts 176
CORNER, B., *et al.* 24
Corrosion resisting steels 3
COWLEY, H.M. and HILL, R.R.H. 595
COWLING, R.M. 409
CRAMPTON, M. 623
CRONIN, J.E. 83
Cross-fertilization in molecular biology 5
Crosslink formation in elastomers with reference to the substitution of natural rubber by synthetic polyisoprene in blends. 133
CSIR. Strategy for the future course of the 604
Cycloalkynes. The conformation of 563

D

DAVIDSON, B.C., *et al.* 203
D-dimer by a metalloproteinase isolated from venom of the puffadder (*Bitis arietans*). Specific cleavage of fibrin-derived 30
DEACON, H.J. and DEACON, J. 74
DEACON, J. and DEACON, H.J. 74
DE ALMEIDA, A.R.C., *et al.* 555
DEAN, S. 610
Deep-sea sediments. Critical evaluation of some criteria used to infer Antarctica's glacial and climatic history from 503
DE HOOP, M.E., *et al.* 329
DE KOCK, K.N., *et al.* 322, 369
Delineation and dating of some major phases in hominidization and hominization since the Middle Miocene 92
DELL, R.K., *et al.* 520
DENNER, L., *et al.* 563
Dental data on different population groups in South African primary schools. Anthropometric and 329
DENTON, G.H. and HUGHES, T.J. 509
Detergents. Tests on a new range of disinfectants and 273
Development technology. Wits and 530
DE VILLIERS, J. 479
DE VILLIERS, M., *et al.* 626
Devonian of South Africa. Facies shifts, sea-level changes and event stratigraphy in the 255
DE WET, M., *et al.* 572
DE WIT, M.J. 527
Diatom species diachrony in Late Neogene sediments of the Southern Ocean 505
Dieldrin in selected biota in the Durban area. A limited collaborative investigation of the occurrence of 319
Dietary fat saturation on the form of the Arrhenius plot of rat liver microsomal glucose-6-phosphatase. Influence of 111
Direct gradient analysis of grasses in a savanna 482
Disadvantaged communities. Physical stature in: Johannesburg blacks have not grown taller this century 585
Disinfectants and detergents. Tests on a new range of 273
DIXON, R.D., *et al.* 629
DOWDLE, E.B., *et al.* 261
DUNN, J.D., *et al.* 319
DUNN, R., *et al.* 436
Durban area. A limited collaborative investigation of the occurrence of dieldrin in selected biota in the 319
DUTTON, G.G.S., *et al.* 45
DYE, P.J., *et al.* 172

E

E. coli K28 using bacteriophage 28-1. Preparative-scale depolymerisation of capsular polysaccharide from 45
Ecological causality and the pattern of Plio-Pleistocene hominid evolution in Africa 87
Ecology of biological invasions 610
Educational support at Wits: response to a changing society. 526
EEDEN, J.A. VAN see VAN EEDEN, J.A. ....
Elands Bay, Western Cape Province, South Africa. A late mid-Holocene high sea-level: a preliminary report on geoarchaeology at 164
Electricity demand in South Africa. Price and income elasticities of 286
Electron microscopists meet in Pietermaritzburg 124
Electrophoresis. New trends in 4
ELLERY, K., *et al.* 579
ELLERY, W.N., *et al.* 579

ELSWORTH, J.F. and NAUDE, W. DU T. 47
Endomycetales. *Waltiozyma* gen. nov. (Saccharomycetaceae), a new genus of the 491
ENGELBRECHT, J.A.A. 236
Engineering infrastructure to community development. The contribution of 532
Ensiferan (Orthoptera) wings used only for communication. Evolution of insect wings: 477
ENTRÖDY, É. KOVÁCS see KOVÁCS-ENTRÖDY, É.......
Environment and species 62
Errors associated with the prediction of fish standing stock and yield using simple empirical relationships 148
Etching agents on bovid tooth enamel. Effects of different .. 265
Eukaryotic transcriptional enhancer elements 479
Eutrophication. New developments in the control of 288
Evolusie. Neotenie en 426
Evolution in Southern Africa. Molecular data and the pace of 78
Evolution of insect wings: Ensiferan (Orthoptera) wings used only for communication 477
Experimental Biology Group: abstracts of papers presented at the 96th scientific meeting, Stellenbosch, July 1985 334
Expert systems, small: as perceived by a scientist with a computer rather than a computer scientist 552

F

Facies shifts, sea-level changes and event stratigraphy in the Devonian of South Africa 255
Fatty acid isomers of food products available on the South African market. 1, Margarines. Analysis of the *cis* and *trans* 203
Fibrin-coated agarose or polycarbonate. Spreading, growth and function of cells on 645
FINCHAM, R.J. 400
FINNEGAN, I. and MENDELSOHN, D. 111
Fish standing stock and yield using simple empirical relationships. Errors associated with the prediction of 148
Fish taxonomy in South Africa: where are we now, and where are we going? Marine 617
Fishery. Aids to understanding a 625
FISHLIT: a new computerised bibliographic information retrieval system 623
Fisiologiese Vereniging van Suider-Afrika: uittreksels van referate, wat gelewer is by die jaarlikse kongres, Pretoria, Oktober 1985 205
Fitztitute anniversary 4
Floating ice shelves on the climate of an ice age. Potential influence of 509
Flow patterns in the Okavango Delta, Botswana. The roles of sedimentation and plant growth in changing 579
Fluvial sedimentation in the ebb-dominated Orange Estuary . 141
Fly ash — a new resource 177
Foraminifera at low latitudes as an ice-volume indicator. The δ^{18} signal of deep-sea planktonic 521
FORD, P.J. 179
FOURIE, L.J., *et al.* 289
FOX, M.F. and RETIEF, A.E. 305
Fractional approximation to irrational constants 285
Freshwater snail *Bulinus tropicus* (Krauss). Effect of laboratory breeding on the population dynamics of successive generations of the 369
FREY, B.J. and VAN AARDT, W.J. 385
FRIDJOHN, P. and SANDERS, M. 559
FROST, P.G.H., *et al.* 482
FROST, S., *et al.* 482
Funding of research in South Africa 120
Fungi. The National Collection of 348

G

GADOW, K. VON see VON GADOW, K ....
GAFFIN, S.L. 284
Galwesp beheer onkruidplant 170
GARNETT, H.M. and ROACH, P.M. 592
Gas volumes. A rapid and inexpensive method for measuring 383
Geïntegreerde stroombaan vir spoorwegbeheer plaaslik vervaardig 118
Geoarchaeology at Elands Bay, western Cape Province, South Africa. A late mid-Holocene high sea-level: a preliminary report on 164
GERBER, A. and MAREE, J.P. 463
GERING, M. 419
GERRANS, G.C. 541
GERSONDE, R. 500
GEVERS, H.O. 127
GIHWALA, D., *et al.* 258
GILLMAN, M.A. and LICHTIGFELD, F.J. 10, 402
Gizzard erosion in chickens 462
Glacial history of the Antarctic Peninsula and South Georgia 508
Glacial-interglacial changes in Antarctic Bottom Water 501
Glycoprotein complex. A monoclonal antibody to the platelet membrane IIb-IIIa 261
Gold objects. Proton-induced techniques for the determination of some trace impurities in 258
Gondwana. Digitized geological map of 527
Gondwanaland during the Late Proterozoic era? Was North America ('Laurentia') part of south-western 251
GRABOW, W.O.K. 342
Graphs and a conjecture of Winter and Swart. On 3-critical. 417
Grasses in a savanna. Direct gradient analysis 482
Grazing dynamics in sour grassveld 566
Grazing systems — existing versus an event-orientated approach. Management of 172
GRIBNITZ, K.-H., *et al.* 629
GRIESEL, R.D. 173
GRINDLEY, J.R. 178
GRINE, F.E. 87, 265
GROBBELAAR, N. and MEYER, J.J.M. 383
GROBLER, D.C. and TOERIEN, D.F. 288
GROVES, D.I., *et al.* 572
GRÜNDLIGH, M.L. 18

H

HAFFNER, M.P., *et al.* 196
HAIR, D., *et al.* 156
HALKETT, D.J., *et al.* 164
HALL, A.V. 347
Halley's comet as viewed from South Africa: 1835 and 1910 128
Hand of *Anteosaurus magnificus* (Dinocephalia: Therapsida) and its bearing on the origin of the mammalian manual phalangeal formula 641
HARDY, M.B. and MENTIS, M.T. 566
HARINGTON, J.S. and BRADSHAW, E. 57
HARRIS, N., *et al.* 261
HARRISON, M.S.J., *et al.* 196
HARTNADY, C.J.H. 251
HARWOOD, D.M. 516
HARWOOD, D.M., *et al.* 520
HATTINGH, J. 612
Haultrucks. Radiometric analysis of U_3O_8 in 140 tonne capacity 24
Health of rural communities. Improving the 4
HEARNE, J.W., *et al.* 289
HEEMSTRA, P.C. 617
HEERDEN, I. Ll. VAN see VAN HEERDEN, I. Ll. ....
HEEVER, J.A. VAN DEN see VAN DEN HEEVER, J.A...
HERBST, B. 404
HERING, E.R. 406
HEY, J.D. 356
Hill equation. Analysis of the sigmoid oxyhaemoglobin equilibrium curve: a reappraisal of the 100
HILL, R.R.H. and COWLEY, H.M. 595
HITCHINGS, E., *et al.* 273
HODELL, D.A. and KENNETT, J.P. 497
Holism and chemistry 361
HOLM, A., *et al.* 354

HOLM, D., *et al.* 354
Holocene chronology for the Transvaal Stone Age. Filling the gap: a new 271
Holocene climates and human responses. Late Pleistocene and 74
Holocene high sea-level: a preliminary report on geoarchaeology at Elands Bay, western Cape Province, South Africa. A late mid- 164
Holocene sea-level changes along the Victoria Land coast. The Ross Sea section of the Antarctic ice sheet at 18 000 yr B.P.: evidence from 506
Holography at the NPRL 171
Hominid deposits of Kromdraai, Sterkfontein and Swartkrans: some problems and preliminary results. Search for pollen from the 380
Hominid evolution in Africa. Ecological causality and the pattern of Plio-Pleistocene 87
Hominid evolutionary events. Correlation and causation in some carnivore and 75
Hominid skin to the savanna. Responses of 89
Hominidization and hominization since the Middle Miocene. Delineation and dating of some major phases in 92
Hominids of Southern Africa: how good is the chronological and palaeoenvironmental evidence? Palaeoecology of the Pliocene and lower Pleistocene 80
Honeybees: coevolution of an insect and its nest? 124
HOOP, M.E. DE see DE HOOP, M.E. ....
HOUGH, J.H. and SIEGFRIED, W.R. 295
Houtgas. Biomassa vir 118
HUGHES, J.T. MOELWYN- see MOELWYN-HUGHES, J.T.
HUGHES, T.J. and DENTON, G.H. 509
Human chromosome segregation in somatic cell hybrids: establishment of a hybrid mapping panel. Aspects of 305
Human movement studies. Science and the emerging discipline of 614
HUNTER, D.A. and PHILIPS, M.J. 488
HUNTER, I.T., *et al.* 324, 635
HUNTER, R. and HUTCHINGS, G.J. 350
Hut architecture in Transkei. Adaptive significance of 295
HUTCHINGS, G.J. and HUNTER, R. 350
HUTCHINGS, G.J., *et al.* 596
Hybrid mapping panel. Aspects of human chromosome segregation in somatic cell hybrids: establishment of a 305
Hydrocarbons: comments on the mechanism of carbon-carbon bond formation. Methanol conversion to 350
Hydrogen production: established methods and some new developments 190
Hydroxyindole-*O*-methyltransferase (EC 2.1.1.4) with various hydroxy substrates. Mechanism of catalysis of bovine 272
Hyperalgesic opioid system 402

I

Ice-volume indicator. The $\delta^{18}O$ signal of deep-sea planktonic foraminifera at low altitudes as an 521
Idiopathic obesity. The molecular pathology of 299
Impurities in gold objects. Proton-induced techniques for the determination of some trace 258
Impurities in solar grade silicon. Aspects of 236
Indigenous hut architecture in Transkei. Adaptive significance of 295
Industrial effluents. Biological treatment of 463
Industrial plants using distributed-multirate methods. Modular simulation of large 555
Infants. Enhanced growth of very-low-birth-weight 60
Insect wings: Ensiferan (Orthoptera) wings used only for communication. Evolution of 477
Insects and amphibians. A synopsis of explanations for metamorphosis in 372
Insects. Centre for the study of African 9
Insulin receptors on cultured lymphocytes of the Raji cell line. Demonstration of 436
Iron Age settlement plans at Olifantspoort, Transvaal. Rock engravings of 349
Island dwarves 123
ITTMANN, H.W. 231

J

JACOBSON, L., *et al.* 258
JARRETT, A.H. 11
JIALAL, I., *et al.* 436
J.L.B Smith Institute of Ichthyology. (A passion for fishes). 622
JONES, D.L., *et al.* 160
JORDAAN, G.J., *et al.* 354
JOUBERT, P.H., *et al.* 322
JOUBERT, S.M., *et al.* 436
JURY, M.R. 108
JURY, M.R., *et al.* 315

K

K, the width coefficient: a new parameter of nutritional status compared to other allometric relationships 327
Karoo. Pleistocene rains in the north-western 178
Karoo research? Whither 409
KATZ, W. and McLEOD, C.G. 375
KEIGWIN, L.D. 499
KELLOGG, D.E. and KELLOGG, T.B. 501
KELLOGG, T.B. and KELLOGG, D.E. 501
KEMP, A.C. 4
KENNEDY, E. 59
KENNETT, J.P. and HODELL, D.A. 497
KENT, L.E., *et al.* 629
KLASHORST, G.H. VAN DER see VAN DER KLASHORST, G.H.
KNOBEL, G.J. and QUERIDO, D. 423
KOCK, J.L.F. and MULLER, H.B. 491
KOCK, K.N. DE see DE KOCK, K.N. ....
Kommersiële voedselradurisering in Suid-Afrika. Vordering met 338
Korrosiestremmer vir petrolenjins. Doeltreffende 399
KOTZÉ, J.P. and VIVIER, [illegible] 327
KOTZÉ, J.P., *et al.* 329
KOVÁCS-ENDRÖDY, É. and THERON, J.N. 102,108
Kromdraai and Sterkfontein hominid sites. Palaeomagnetic results from the 160
KRUGER, R.A. 177
KÜHN, G.J., *et al.* 398
Kussensitiwiteitsatlas van Suidelike Afrika 231

L

Laboratory breeding on the population dynamics of successive generations of the freshwater snail *Bulinus tropicus* (Krauss). Effect of 369
LAING, M.J. 341
Laserspieëls met hoë drywing 171
'Laurentia', Was North America part of south-western Gondwanaland during the Late Proterozoic era? 251
Lead in South African petrol 156
LESLIE, G.W. 458
Letty, Cythna, *obituary* 347
LEWIS, C.M. and STEWART, R.I. 100
LICHTIGFELD, F.J. and GILLMAN, M.A. 10,402
Light scattering in historical perspective. Part V: the fourth Baron Rayleigh. From Leonardo to the graser: 356
Light scattering. Methods and instruments for ensemble particle sizing by 14
Lignin: a waste product rehabilitated 399
LINDE, H.J. VAN DER see VAN DER LINDE, H.J. ....
LINDESAY, J.A., *et al.* 196
LINDSEY, G.G., *et al.* 30
LINTON, N.J., *et al.* 30
Liquid fuels production from coal: carbon monoxide hydrogenation using cobalt catalysts 596
LLOYD, P.J.D. 285
LOCHNER, A., *et al.* 626
LOGGERENBERG, B.J. VAN see VAN LOGGERENBERG,

B.J. ....
LORD, D.A. 231
LÖTTER, C.J., *et al.* 398
LOUW, N.J. and STARFIELD, A.M. 552
LOVEGROVE, B.G. and SIEGFRIED, W.R. 432
LOVESAY, K., *et al.* 273
LOWENSTEIN, J.M. 77
LUTJEHARMS, J.R.E., *et al.* 324, 635
LUTJEHARMS, J.R.E. and McQUAID, L.H. 470
Lymnaea natalensis Krauss and *Biomphalaria* cf. *glabrata* (Say) at low temperatures. Survival of *Bulinus tropicus* (Krauss), 322
Lymphocytes of the Raji cell line. Demonstration of insulin receptors on cultured 436
LYONS, G. and SWEET, M.B.E. 151
LYONS, S.F. and SCHOUB, B.D. 403

M

McCARTHY, T.S., *et al.* 579, 588
McCLAIN, L. 346
McDOWELL, M.W. 230
McFADDEN, P.L., *et al.* 160
MACFARLANE, C.M. 299
MACFARLANE, C.M. and TSAKALKOS, N. 312
McGILL, W.J. 133
MACINTYRE, U., *et al.* 329
McIVER, J.R., *et al.* 588
McLACHLAN, A. 243
McLACHLAN, D.S. 412
McLEOD, C.G. and KATZ, W. 375
MacLEOD, I.M., *et al.* 555
McMILLAN, I.K. 66
McQUAID, L.H. and LUTJEHARMS, J.R.E. 470
MABIN, M.C.G. 506
Magnetic anomaly map from satellite data. Deep crustal...... 398
MALAN, M. 174
Mammalian manual phalangeal formula. The hand of *Anteosaurus magnificus* (Dinocephalia: Therapsida) and its bearing on the origin of the 641
Management of grazing systems — existing versus an event-orientated approach 172
MANCHESTER, K.L. 4
MANHIRE, A.H., *et al.* 165
MANN, M.D. and WYNCHANK, S. 602
MAREE, J.P. and GERBER, A. 463
Margarines. Analysis of the *cis* and *trans* fatty acid isomers of food products available on the South African market. 1 ... 203
Marine deposits of the Namaqualand coast, Cape Province: new perspectives. Late Tertiary and early Quaternary 464
Marine fish taxonomy in South Africa: where are we now, and where are we going? 617
Marion Island. Volcanic ash, ash soils and the inferred Quaternary climate of sub-Antarctic 629
MARKUS, M.B. and BUSH, J.B. 577
MARKWELL, A.J. and ORCHARD, S.W. 190
MASKE, S., *et al.* 572
Mathematical model of the interaction between rock hyrax and caracal lynx, based on demographic data from populations in the Mountain Zebra National Park, South Africa 289
Mathematics. Problems posed by 542
MATTHEWS, D.A., *et al.* 172
MATTHEWS, R.K. 521
MAUD, R.R. 65
MAXWELL, C.D., *et al.* 315
Measuring gas volumes. A rapid and inexpensive method for 383
Medical Research Council 61
Medical research for Africa 174
MENDELSOHN, D. and FINNEGAN, I. 111
MENTIS, M.T. and HARDY, M.B. 566
MERWE, K.J. VAN DER see VAN DER MERWE, K.J. ....
MESKIN, I. 244
Messinian times. African climates and palaeoenvironments since 70
Metalloproteinase isolated from venom of the puffadder (*Bitis arietans*). Specific cleavage of fibrin-derived D-dimer by a 30
Metamorphosis in insects and amphibians. A synopsis of explanations for 372
Meteorological and oceanographic aspects of a winter storm over the south-western Cape Province, South Africa 315
Methanol conversion to hydrocarbons: comments on the mechanism of carbon-carbon bond formation 350
MEY, R.D., *et al.* 635
MEYER, J.J.M. and GROBBELAAR, N. 383
MILLER, D.E., *et al.* 164
MILLER, G.H., *et al.* 520
MILTON, R.C. de L., *et al.* 261
Mima-like earth mounds in the western Cape Province of South Africa. Distribution and formation of 432
MINGAY, D.W., *et al.* 24
Mining technology: a special survey 629
Miocene and Pliocene of the south-western Cape. Palynological evidence for major vegetation and climatic change in the .. 71
Moddervloedgevaar. Beheergeut teen 118
Modular simulation of large industrial plants using distributed-multirate methods 555
MOELWYN-HUGHES, J.T. 543
Molecular biology. Cross-fertilization in 5
Molecular data and the pace of evolution in Southern Africa 78
Molecular insights into the nature and timing of ancient speciation events: correlates with palaeoclimate and palaeobiogeography 83
Molecular pathology of idiopathic obesity 299
Monoclonal antibody to the platelet membrane IIb-IIIa glycoprotein complex 261
MORKEL, M.P. 232
MORTON, D.J. 200, 272
Mount Ayliff Intrusion (Insizwa Complex), Transkei. Nickel sulphide potential of the 572
Mountain Zebra National Park, South Africa. Mathematical model of the interaction between rock hyrax and caracal lynx, based on demographic data from populations in the 289
Mucoid enteritis. Toxic components in commerical rabbit feeds and their role in 375
Mudsucker fish blood a a criterion of cell viability in thermal stress studies. The oxygen consumption rate of 385
MULLER, H.B. and KOCK, J.L.F. 491
MULLER, J. and CLOETE, N. 529
Multi-cultural education. Research into 625
MURPHY, R.L., *et al.* 24
MYNHARDT, C.M. and BROERE, I. 417
Myocardial phospholipids. Evaluation of techniques employed in the study of 626

N

NAIDOO, P., *et al.* 319
Namaqualand coast, Cape Province: new perspectives. Late Tertiary and early Quaternary marine deposits of the 464
National Collection of Insects. The South African 9
Natural rubber by synthetic polyisoprene in blends. Crosslink formation in elastomer with reference to the substitution of 133
NAUDE, W. DU T. and ELSWORTH, J.F. 47
NELSON, W.R. and VAN STADEN, J. 199
Neogene catarrhine evolution. Non-hominid 90
Neogene climatic change. North Atlantic record of Late 499
Neogene intervals of global climatic change: evidence from the deep-sea record. Biotic response to two Late 69
Neogene oxygen isotopic records. Major events in 497
Neogene palaeoclimates in the eastern and south-eastern coastal areas of South Africa 65
Neogene sediments of the Southern Ocean. Diatom species diachrony in Late 505
Neotenie en evolusie 426
Neurochemical correlates of the alcohol withdrawal syndrome 96
Nickel sulphide potential of the Mount Ayliff Intrusion (Insizwa Complex), Transkei 572
Niels Bohr 1885-1962 179

Nitrous oxide, the primordial opioid substance? 10
Non-hominid Neogene catarrhine evolution 90
Nonlinear phenomena. The computer in modern applied mathematics: recurrence and the investigation of 404
NORRIS, D.K., *et al.* 96
North America ('Laurentia') part of south-western Gondwanaland during the Late Proterozoic era? 251
North Atlantic record of Late Neogene climatic change 499
Nuclear medicine in paediatrics 602

O

Obesity control: sanguine or sombre? Outlook for 606
Obesity. The molecular pathology of idiopathic 299
Observatories, American, in Southern Africa 11
Oceanic water temperatures. Cainozoic planktonic and larger foraminifera distributions around Southern Africa and their implications for past changes of 66
Oceanographic database. A South African 488
Oesophageal cancer relative to other cancers in Southern Africa, 1949-1979. The problem of 57
Oil pollution potentials for the South African coast. Assessing 240
Okavango Delta, Botswana. Carbonate accumulation on islands in the 588
Okavango Delta, Botswana. The role of sedimentation and plant growth in changing flow patterns in the 579
Olifantspoort, Transvaal. Rock engravings of Iron Age settlement plans at 349
Ontwerptemperature in Pelindaba in vergelyking met dié van Pretoria. Die bepaling van 354
Opioid system. Hyperalgesic 402
Orange Estuary. Fluvial sedimentation in the ebb-dominated 141
ORCHARD, S.W. and MARKWELL, A.J. 190
ORREN, M.J. 285
Oxygen consumption rate of mudsucker fish blood as a criterion of cell viability in thermal stress studies 385
Oxygen isotopic records. Major events in Neogene 497

P

Paediatrics. Nuclear medicine in 602
Palaeoclimate and evolution II 62
Palaeoclimate and evolution III 493
Palaeoecology of the Pliocene and lower Pleistocene hominids of Southern Africa: how good is the chronological and palaeoenvironmental evidence? 80
Palaeomagnetic results from the Kromdraai and Sterkfontein hominid sites 160
Palynological evidence for major vegetation and climatic change in the Miocene and Pliocene of the south-western Cape 71
Parasitological Society of Southern Africa: abstracts of papers presented at the annual meeting, Johannesburg, July 1986 648
Parasitologiese Vereniging van Suidelike Africa: uittreksels van referate van die jaarlikse vergadering, Johannesburg, Julie 1986 648
PARKINGTON, J.E., *et al.* 164
Particle sizing by light scattering. Methods and instruments for ensemble 14
PARTRIDGE, T.C. 80
PATERSON, H.E.H. 62
Pedersen Hypothesis. The extended 312
PEISACH, M., *et al.* 258
Pelindaba in vergelyking met dié van Pretoria. Die bepaling van ontwerptemperature in 354
Percy FitzPatrick Institute of African Ornithology 4
Periodic table — again 340
PERRIN, M. 125
PERRIN, M.R., *et al.* 289
PETHER, J. 464
Petrol. Lead in South African 156
Petrolengins. Doeltreffende korrosiestremmer vir 399
PHILIPS, M.J. and HUNTER, D.A. 488
Phosphorus-32 to track the African sugarcane borer 458
Physical sciences, Bridging the gap between school and university in the: a review of development and research at Wits 534
Physical stature in disadvantaged communities: Johannesburg blacks have not grown taller this century 585
Physiological measurement of stress 612
Physiological Society of Southern Africa: abstracts of papers presented at the annual congress, Pretoria, October 1985 205
PICKARD, J., *et al.* 520
PIENAAR, A.J.L. 399
Pine plantations. Observations on self-thinning in 364
Pineal gland. Probable mechanism of catalysis of acetyl coenzyme. A: arylamine N-acetyltransferase (EC 2.3.1.5) from rat 200
PINEDA, C.A., *et al.* 258
Plant growth in changing flow patterns in the Okavango Delta, Botswana. The roles of sedimentation and 579
Plants. Viral diseases of 405
Plasma total solute content and post-mortem interval during the early post-mortem period. Linear relationship between 423
Platelet membrane IIb-IIIa glycoprotein complex. A monoclonal antibody to the 261
Pleistocene, Late, and Holocene climates and human responses 74
Pleistocene rains in the north-western Karoo 178
Pliocene of the south-western Cape. Palynological evidence for major vegetation and climatic change in the Miocene and 71
Pliocene marine sediments in the Vestfold Hills, East Antarctica: implications for coastline, ice sheet and climate. Early 520
Plio-Pleistocene hominid evolution in Africa. Ecological causality and the pattern of 87
Pneumocystis carinii pneumonia by various staining methods. Diagnosis of 577
Pollen from the hominid deposits of Kromdraai, Sterkfontein and Swartkrans: some problems and preliminary results. Search for 380
Pollen record in the interior of South Africa. The Late Tertiary and Quaternary 73
Pollution in water. Monitoring organic 230
Pollution potentials for the South African coast. Assessing oil 240
POLSON, A., *et al.* 339
Population dynamics of successive generations of the freshwater snail *Bulinus tropicus* (Krauss). Effect of laboratory breeding on the 369
Port Jackson-boom 170
POST, B.J. and WESSELS, J.P.H. 462
Post-mortem interval during the early post-mortem period in the rat. Linear relationshp betwen plasma total solute content and 423
POURIS, A. 286, 401
Precipitation climatology. Processes determining regional thermal and 493
PRESTIDGE, G., *et al.* 315
Pretoria-oogstuk 230
PRETORIUS, S.J., *et al.* 322, 369
Pre-University School. Bridging the gap: 541
Price and income elasticities of electricity demand in South Africa 286
Price change. The deterministic nexus between productivity and 34
Primary schools. Anthropometric and dental data on different population groups in South African 329
PRINSLOO, G. 9
Productivity and its proper measurement 21
Productivity and price change. The deterministic nexus between 34
Professional development of academics: fashionable fad or responsible innovation? 543
Promissum pulchrum: the unfulfilled promise 106
Proteoglycan of bovine intervertebral disc. Age-related change in 151
Proterozoic era? Was North America ('Laurentia') part of south-western Gondwanaland during the Late 251
Proton-induced techniques for the determination of some trace impurities in gold objects 258
Psycho-statistical evaluation of a zoology academic support programme for high-risk first-year students 559
PUDIFIN, D., *et al.* 436
Puffer fish, *Amblyrhynchotes honckenii* (Bloch). Toxicity studies on the South African 47
PURVES, L.R., *et al.* 30
PURVES, M., *et al.* 30

Q

Quaternary climate of sub-Antarctic Marion Island. Volcanic ash, ash soils and the inferred ... 629
Quaternary pollen record in the interior of South Africa. The Late Tertiary and ... 73
Quaternary marine depoits of the Namaqualand coast, Cape Province: new perspectives. Late Tertiary and early ... 464
QUERIDO, D. and KNOBEL, G.J. ... 423
QUILTY, P.G., *et al.* ... 520

R

Rabbit feed and their role in mucoid enteritis. Toxic components in commercial ... 375
Radiation sickness. Anti-LPS antibodies to treat ... 284
Radiometric analysis of U_3O_8 in 140 tonne capacity haultrucks 24
Rainfall. The Southern Oscillation and South African ... 196
Rat liver microsomal glucose-6-phosphatase. Influence of dietary fat saturation on the form of the Arrhenius plot of ... 111
RAWDON, B.B. and WITCOMB, M.J. ... 124
Rayleigh. From Leonardo to the graser: Light scattering in historical perspective. Part V: the fourth Baron ... 356
RAYNER, R.J. ... 106, 528
Remote sensing in biomechanics ... 404
Research and development across a wide front with chemistry as the key. BP Southern Africa (Pty) Ltd ... 281
Research funding ... 341
Research in South Africa. Funding of ... 120
RETIEF, A.E. and FOX, M.F. ... 305
RIET, M. VAN DER see VAN DER RIET, M. ...
ROACH, P.M. and GARNETT, H.M. ... 592
ROBARTS, R.D. and COCHRANE, K.L. ... 148
Rock engravings of Iron Age settlement plans at Olifantspoort, Transvaal ... 349
Rock hyrax and caracal lynx, based on demographic data from populations in the Mountain Zebra National Park, South Africa. Mathematical model of the interaction between ... 289
RODD, M.G. ... 530
ROGERS, K.H., *et al.* ... 579
Rose beetles. Backyard physiology: 'Lazy' ... 346
Ross Sea section of the Antarctic ice sheet at 18 000 yr B.P.: evidence from Holocene sea-level changes along the Victoria Land coast ... 506
ROWE, T. and VAN DEN HEEVER, J.A. ... 641
ROWLAND, G.F., *et al.* ... 339
Rural communities. Improving the health of ... 4
Rural planning. Computerised geography for ... 400
RUSSELL, D.D. ... 547
RYBICKI, E. ... 405
RYKE, P.A.J. ... 426

S

SAFFEY, K., *et al.* ... 203
Sand dunes. Studies of ... 243
SANDERS, M. and FRIDJOHN, P. ... 559
Satellite data. Deep crustal magnetic anomaly map from ... 398
Savanna. Direct gradient analysis of grasses in a ... 482
Savanna. Responses of hominid skin to the ... 89
Schelpe, Profesor E.A.L.C.E., *obituary* ... 347
SCHOUB, B.D. and LYONS, S.F. ... 403
SCHUMANN, E.H. ... 240
SCHWARTZ, J.H. ... 90
Science in high schools ... 341
SCOTT, L. ... 73
SCOTT, L. and BONNEFILLE, R. ... 380
Sea fishes of Southern Africa. Compleat guide to the ... 624
Sea-level changes and event stratigraphy in the Devonian of South Africa. Facies shifts, ... 255
Seaweed concentrate on the growth of wheat. Effect of ... 199
Secunda Collieries. Operational developments during the establishment of the ... 653
Sedimentation and plant growth in changing flow patterns in the Okavango Delta, Botswana. The roles of ... 579
Seeoppervlak dryfgedrag aan die Suid-Afrikaanse suidkus in 1979 324
Self-thinning in pine plantations. Observations on ... 364
SHILLINGTON, F.A., *et al.* ... 315
Ship motions. Model studies of ... 2
SIBBALD, R.R., *et al.* ... 319
SIEGFRIED, W.R. ... 120
SIEGFRIED, W.R. and HOUGH, J.H. ... 295
SIEGFRIED, W.R. and LOVEGROVE, B.G. ... 432
Sigmoid oxyhaemoglobin equilibrium curve: a reappraisal of the Hill equation. Analysis of the ... 100
SILBERBAUER, M.J. ... 459
Siliceous particle flux in Antarctic waters and its palaeoecological significance. Biogenic ... 500
Silicon. Aspects of impurities in solar grade ... 236
Slow-stream curricula in chemistry and physics ... 537
SMITH, D., *et al.* ... 273
Smoke and sulphur dioxide levels over South African urban areas 59
Snail *Bulinus tropicus*. Uptake of copper by the haemolymph, shell and soft tissue of the ... 383
Somatic cell hybrids: establishment of a hybrid mapping panel. Aspects of human chromosome segregation in ... 305
Sorghumopbrengs verbeter ... 3
Sour grassveld. Grazing dynamics in ... 566
South African Journal of Science: a bibliometric evaluation. 401
South African oceanographic database ... 488
South African Pharmacological Society: abstracts of papers presented at the annual congress, Pretoria, Oct. 1985 ... 438
South Georgia. Glacial history of the Antarctic Peninsula and 508
SOUTHERN, J., *et al.* ... 273
Southern Ocean. Diatom species diachrony in Late Neogene sediment of the ... 505
Southern Oscillation and South African rainfall ... 196
SPARGO, P.E. ... 128, 341
Speciation events: correlates with palaeoclimate and palaeobiogeogrpahy. Molecular insights into the nature and timing of ancient ... 83
Species. Environment and ... 62
STADEN, J. VAN see VAN STADEN, J. ...
Staining methods. Diagnosis of *Pneumocystis carinii* pneumonia by various ... 577
STANDTON, M. and BRADLEY, J.D. ... 534, 535, 537, 539
STARFIELD, A.M. and LOUW, N.J. ... 552
Statistics. Wits University ... 542
Stedelike navorsing. Hulpmiddel vir ... 603
STEEL, R.H. ... 349
Steels, Corrosion resisting ... 3
STEENDEREN, R.A. VAN see VAN STEENDEREN, R.A.
STEPHEN, A.M., *et al.* ... 45
Sterkfontein and Kromdraai hominid sites. Palaeomagnetic results from the ... 160
STEWART, R.I. and LEWIS, C.M. ... 100
Stress. Physiological measurement of ... 612
Sugarcane borer. Phosphorus-32 to track the African ... 458
SUGDEN, D.E. and CLAPPERTON, C.M. ... 508
Suid-Afrikaanse Farmakologiese Vereniging: uittreksels van referate van die jaarlikse kongres, Pretoria, Okt. 1985 ... 438
Suidkus in 1979. Seeoppervlak dryfgedrag aan die Suid-Afrikaanse ... 324
Summer air temperatures around the Cape Peninsula, South Africa. Effect of wind direction and topography on ... 108
Superconducting technology from commuters to computers .. 412
Superlattices ... 419
SWART, J., *et al.* ... 289
SWEET, M.B.E. and LYONS, G. ... 151
Sweismasjien (Ultraligte) 'n wenner ... 170
Synthetic polyisoprene in blends. Crosslink formation in elastomers with reference to the substitution of natural rubber by ... 133

T

Table Mountain Group, South Africa. Preliminary note and

description of the earliest known vascular plant, or an ancestor of vascular plants, in the flora of the Lower Silurian Cedarberg Formation, ... 102
TAYLOR, M. 176
Temperature changes. Prospects for a Southern African continental record of Cainozoic 94
Tertiary and early Quaternary marine deposits of the Namaqualand coast, Cape Province: new perspectives. Late 464
Tertiary and Quaternary pollen record in the interior of South Africa. The Late 73
Thermal and precipitation climatology. Processes determining regional 493
Thermal ocean fronts south of Africa over a three-month period. Changes in the structure of 470
Thermal stress studies. The oxygen consumption rate of mudsucker fish blood as a criterion of cell viability in 385
THERON, J.N. and KOVÁCS-ENDRÖDY, É 102, 108
THOMSON, J.A. 5
TOBIAS, P.V. 92, 585
TOERIEN, D.F. and GROBLER, D.C. 288
TOERIEN, D.F., *et al.* 54
TOMS, R.B. 372, 477
Tooth enamel. Effects of different etching agents on bovid .. 265
Topography on summer air temperatures around the Cape Peninsula, South Africa. Effect of wind direction and 108
Toxic components in commercial rabbit feeds and their role in mucoid enteritis 375
Toxicity studies on the South African puffer fish, *Amblyrhynchotes honckenii* (Bloch) 47
Transkei. Adaptive significance of indigenous hut architecture in 295
Transvaal Highveld, South Africa. Factors affecting the coexistence of blowflies (Diptera: Calliphoridae) on the 244
Transvaal Stone Age. Filling the gap: a new Holocene chronology for the 271
TSAKALAKOS, N. and MACFARLANE, C.M. 312
Tuberculosis: proceedings of the first TBRI symposium, Pretoria, August 1985 386
TURNER, A. 75, 123
TURNER, G.S.M., *et al.* 156

U

Ultraligte sweismasjien 'n wenner 170
University science teaching, research and community needs: the view from below 529
Urban areas. Smoke and sulphur dioxide levels over South African 59

V

Valve wear in backfill mining 462
VAN AARDT, W.J. and FREY, B.J. 385
VAN DEN HEEVER, J.A. and ROWE, T. 641
VAN DER KLASHORST, G.H. 399
VAN DER LINDE, H.J. 338
VAN DER MERWE, K.J., *et al.* 339
VAN DER RIET, M., *et al.* 596
VAN EEDEN, J.A., *et al.* 369
VAN HEERDEN, I. Ll. 141
VAN LOGGERENBERG, B.J. 34
VAN LOGGERENBERG, B.J. and VISSER, J.H. 21
VAN STADEN, J. and NELSON, W.R. 199
VAN STEENDEREN, R.A. 230
VAN ZINDEREN BAKKER, E.M. 70
Vascular plants, in the flora of the Lower Silurian Cedarberg Formation, Table Mountain Group, South Africa. Preliminary note and description of the earliest known vascular plant, or an ancestor of 102
Vascular plants, The first — their roots are in South Africa. 528
VAUGHAN, C.L. 404
Venom of the puffadder (*Bitis arietans*). Specific cleavage of fibrin-derived D-dimer by a metalloproteinase isolated from 30
VERHAGEN, B. Th. and WADLEY, L. 271
Vestfold Hills, East Antarctica: implications for coastline, ice sheet and climate. Early Pliocene marine sediment in the .. 520
Victoria Land coast. The Ross Sea section of the Antarctic ice sheet at 18 000 yr B.P.: evidence from Holocene sea-level changes along the 506
VILLIERS, J. DE see DE VILLIERS, J. ....
VILLIERS, M. DE see DE VILLIERS, M. ....
Viral diseases of plants 405
Visolie. Meer gewenste vetsure in 60
VISSER, J.H. and VAN LOGGERENBERG, B.J. 21
VIVIER, F.L., *et al.* 329
VIVIER, F.L. and KOTZÉ, J.P. 327
VOGEL, J.C., *et al.* 164
Volcanic ash, ash soils and the inferred Quaternary climate of sub-Antarctic Marion Island 629
VON GADOW, K. 364
VORSTER, L.P., *et al.* 54

W

WADLEY, L. and VERHAGEN, B. Th. 271
WALKER, A.R.P. 606
WALKER, B.H., *et al.* 172
Waltiozyma gen. nov. (Saccharomycetaceae), a new genus of the Endomycetales 491
WASSER, C.E. ALLENSPACH- see ALLENSPACH-WASSER, C.E. ....
Water. Monitoring organic pollution in 230

X

Water quality assessment and control in South Africa 342
Water research, Funding of 54
Water resources. Modelling and monitoring 459
Water supplies: applied research and development. The chlorination of small-scale 232
WEDEPOHL, P.T. 341
WEED, R. and ACKERT, R.P. 513
WELLS, R.B., *et al.* 156
WESSELS, J.P.H. and POST, B.J. 462
WET, M. DE see DE WET, M. ....
Wheat. Effect of seaweed concentrate on the growth of 199
Width coefficient K: a new parameter of nutritional status compared to other allometric relationships 327
WILLIAM, P.G. 4
WILLIAMS, W.N., *et al.* 329
Wind direction and topography on summer air temperatures around the Cape Peninsula, South Africa. Effect of 108
Winter storm over the south-western Cape Province, South Africa. Meteorologicl and oceanographic aspects of a 315
WIT, M.J. DE see DE WIT, M.J. ....
WITCOMB, M.J. and RAWDON, B.B. 124
Wits and development technology 530
Wits, Educational support at: responses to a changing society 526
WOLMARANS, C.T. and VAN AARDT, W.J. 383
WOOD, B.A. 86
WYNCHANK, S. and MANN, M.D. 602

Y

YATES, R.J., *et al.* 164
YEATON, R.I., *et al.* 482
YELLEN, J.E. 78
YPMA, T.J., *et al.* 555

Z

ZAAIMAN, H., *et al.* 398
ZIHLMAN, A.L. and COHN, B.A. 89
ZUCCHINI, W. and CHANNING, A. 137

NORTHERN CAPE PRINTERS
KIMBERLEY